

IN THE CLAIMS:

Please cancel claims 1-20 and add new claims 21-39 as follows:

1.-20. (Cancelled)

21. (New) A radiation curable waterborne composition comprising at least one amphiphilic dendritic polymer, at least one non-amphiphilic radiation curable oligomer or polymer and water; and optionally at least one initiator or promoter of radiation curing, the radiation being one selected from the group consisting of ultraviolet, infrared and electron beam, and optionally at least one additional additive from the group consisting of oligomer, polymer and monomer; and optionally at least one additional component selected from the group consisting of a pigment, a filler, a non-reactive diluent, a reactive diluent, a neutralizing additive, a flow additive and a levelling additive, wherein said at least one amphiphilic dendritic polymer is built up from a polyhydric dendritic core polymer having at least 4 terminal hydroxyl groups and thus a hydroxyl functionality (f) of at least 4 and at least one monocarboxylic acid bonded to at least one and at most $f-1$ of said terminal hydroxyl group(s) and at least one adduct, obtained by addition of at least one monoalkylated polyethylene glycol to at least one dicarboxylic acid or at least one corresponding anhydride, bonded to at least one and at most $f-1$ said terminal hydroxyl group(s), and wherein said at least one non-amphiphilic radiation curable oligomer or polymer is selected from the group consisting of unsaturated polyester, unsaturated polyether, polyester acrylate, polyester methacrylate, polyester β -methyl acrylate, polyether acrylate, polyether methacrylate, polyether β -methyl acrylate, ester acrylate, ester methacrylate, ester β -methyl acrylate, urethane acrylate, urethane methacrylate, urethane β -methyl, epoxy acrylate, epoxy methacrylate, epoxy β -methyl acrylate, glycidyl acrylate, glycidyl methacrylate and glycidyl β -methyl acrylate.

22. (New) The radiation curable waterborne composition according to claim 21, wherein said ester is fumaric ester.

23. (New) The radiation curable waterborne composition according to claim 21, wherein said amphiphilic dendritic polymer is radiation curable.

24. (New) The radiation curable waterborne composition according to claim 21, wherein said polyhydric dendritic core polymer is obtained by addition of at least one di, tri or polyhydric monocarboxylic acid to a di, tri or polyhydric core molecule at a molar ratio yielding a polyhydric dendritic polymer comprising a core molecule and at least one branching generation bonded to said di, tri or polyhydric core module.

25. (New) The radiation curable waterborne composition according to claim 21, wherein said polyhydric dendritic core polymer is obtainable by ring opening addition of at least one oxetane of a di, tri or polyhydric compound to a di, tri or polyhydric core molecule at a molar ratio yielding a polyhydric dendritic polymer comprising a core molecule and at least one branching generation bonded to said di, tri or polyhydric core molecule.

26. (New) The radiation curable waterborne composition according to claim 21, wherein said at least one monoalkylated polyethylene glycol has a molecular weight of at least 500 g/mole.

27. (New) The radiation curable waterborne composition according to claim 21, wherein said at least one monoalkylated polyethylene glycol has a molecular weight of 500-2500 g/mole.

28. (New) The radiation curable waterborne composition according to claim 21, wherein said at least one monoalkylated polyethylene glycol is a monomethylated polyethylene glycol.

29. (New) The radiation curable waterborne composition according to claim 21, wherein said at least one dicarboxylic acid or anhydride is fumaric acid, maleic anhydride, succinic anhydride and/or glutaric acid.

30. (New) The radiation curable waterborne composition according to claim 21, wherein said at least one carboxylic acid is an aliphatic linear or branched saturated or unsaturated carboxylic acid having 8-24 carbon atoms in its main carbon chain.

31. (New) The radiation curable waterborne composition according to claim 28, wherein said at least one monocarboxylic acid is lauric acid, tall oil fatty acid, soybean fatty acid, safflower fatty acid, cottonseed fatty acid, castor fatty acid, oleic acid, linoleic acid, linolenic acid stearic acid and/or isostearic acid.

32. (New) The radiation curable waterborne composition according to claim 28, wherein said at least one monocarboxylic acid is a vinyl and/or allyl functional carboxylic acid.

33. (New) The radiation curable waterborne composition according to claim 28, wherein said vinyl functional monocarboxylic acid is acrylic, methacrylic and/or β -methyl acrylic acid.

34. (New) The radiation curable waterborne composition according to claim 21, wherein a weight ratio of said amphiphilic dendritic polymer to said non-amphiphilic radiation curable oligomer or polymer of between 1:99 and 99:1.

35. (New) The radiation curable waterborne composition according to claim 21, wherein said non-amphiphilic radiation curable oligomer or polymer is a dendritic unsaturated polyester, a dendritic unsaturated polyether, a dendritic polyester acrylate, a dendritic polyester methacrylate, a

dendritic polyester β -methyl acrylate, a dendritic polyether acrylate, a dendritic polyether methacrylate, a dendritic polyether β -methyl acrylate, a dendritic ester acrylate, a dendritic ester methacrylate or a dendritic ester β -methyl acrylate.

36. (New) The radiation curable waterborne composition according to claim 21, wherein said at least one initiator is at least one photoinitiator.

37. (New) The radiation curable waterborne composition according to claim 21, wherein said optional at least one initiator is a photoinitiator present in an amount of 0.1-5% by weight calculated on solid polymers, oligomers and monomers in said resin composition.

38. (New) The radiation curable waterborne composition according to claim 21, wherein said resin composition is a UV curable resin composition.

39. (New) The radiation curable waterborne composition according to claim 37 where the photoinitiator is present in an amount of 1-5% by weight.